

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/284,100A

DATE: 08/13/2001

TIME: 14:02:46

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3 <110> APPLICANT: Narhi, Linda O.
 4 Osslund, Timothy D.
 6 <120> TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2 PRODUCTS
 8 <130> FILE REFERENCE: A-423C
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/284,100A
 C--> 11 <141> CURRENT FILING DATE: 1999-04-07
 13 <150> PRIOR APPLICATION NUMBER: US 60/028,493
 14 <151> PRIOR FILING DATE: 1996-10-15
 16 <150> PRIOR APPLICATION NUMBER: US 60/032,781
 17 <151> PRIOR FILING DATE: 1996-12-06
 19 <150> PRIOR APPLICATION NUMBER: US 60/033,046
 20 <151> PRIOR FILING DATE: 1996-12-10
 22 <160> NUMBER OF SEQ ID NOS: 63
 24 <170> SOFTWARE: PatentIn Ver. 2.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 627
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Recombinant Human
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 32 <221> NAME/KEY: CDS
 33 <222> LOCATION: (1)..(624)
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 38 1 5 10 15
 40 ccc ggc tgc tgc tgc tgc ttt ttg ctg ttc ttg gtg tct tcc 96
 41 Pro Gly Cys Cys Cys Cys Phe Leu Leu Phe Leu Val Ser Ser
 42 20 25 30
 44 gtc cct gtc acc tgc caa gcc ctt ggt cag gac atg gtg tca cca gag 144
 45 Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu
 46 35 40 45
 48 gcc acc aac tct tct tcc tcc tcc ttc tcc tct cct tcc agc gcg gga 192
 49 Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly
 50 50 55 60
 52 agg cat gtg cgg agc tac aat cac ctt caa gga gat gtc cgc tgg aga 240
 53 Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg
 54 65 70 75 80
 56 aag cta ttc tct ttc acc aag tac ttt ctc aag att gag aag aac ggg 288
 57 Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly
 58 85 90 95
 60 aag gtc agc ggg acc aag aag gag aac tgc ccg tac agc atc ctg gag 336
 61 Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu
 62 100 105 110
 64 ata aca tca gta gaa atc gga gtt gtt gcc gtc aaa gcc att aac agc 384
 65 Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser
 66 115 120 125
 68 aac tat tac tta gcc atg aac aag aag ggg aaa ctc tat ggc tca aaa 432

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69 Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys
70      130              135              140
72 gaa ttt aac aat gac tgt aag ctg aag gag agg ata gag gaa aat gga      480
73 Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly
74 145              150              155              160
76 tac aat acc tat gca tca ttt aac tgg cag cat aat ggg agg caa atg      528
77 Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met
78      165              170              175
80 tat gtg gca ttg aat gga aaa gga gct cca agg aga gga cag aaa aca      576
81 Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr
82      180              185              190
84 cga agg aaa aac acc tct gct cac ttt ctt cca atg gtg gta cac tca      624
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86      195              200              205
88 tag
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92 <211> LENGTH: 208
93 <212> TYPE: PRT
94 <213> ORGANISM: Recombinant Human
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100 Pro Gly Cys Cys Cys Cys Phe Leu Leu Phe Leu Val Ser Ser
101      20      25      30
103 Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu
104      35      40      45
106 Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly
107      50      55      60
109 Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg
110 65      70      75      80
112 Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly
113      85      90      95
115 Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu
116      100      105      110
118 Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser
119      115      120      125
121 Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys
122      130      135      140
124 Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly
125 145      150      155      160
127 Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met
128      165      170      175
130 Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr
131      180      185      190
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134      195      200      205
137 <210> SEQ ID NO: 3
138 <211> LENGTH: 426
139 <212> TYPE: DNA

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149 1 5 10 15
151 tcc ttc acc aag tac ttt ctc aag att gaa aag aac ggc aag gtc agc 96
152 Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser
153 20 25 30
155 ggg acc aag aag gaa aac tgt ccg tac agt atc cta gag ata aca tca 144
156 Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser
157 35 40 45
159 gtg gaa atc gga gtt gtt gcc gtc aaa gcc att aac agc aac tat tac 192
160 Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr
161 50 55 60
163 tta gcc atg aac aag aag ggg aaa ctc tat ggc tca aaa gaa ttt aac 240
164 Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn
165 65 70 75 80
167 aat gac tgt aaa ctg aaa gag agg ata gag gaa aat gga tac aac acc 288
168 Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr
169 85 90 95
171 tat gca tct ttt aac tgg cag cac aac ggc agg caa atg tat gtg gca 336
172 Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala
173 100 105 110
175 ttg aat gga aaa gga gct ccc agg aga gga caa aaa aca aga agg aaa 384
176 Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys
177 115 120 125
179 aac acc tcc gct cac ttc ctc ccc atg gtg gtc cac tca taa 426
180 Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser
181 130 135 140
184 <210> SEQ ID NO: 4
185 <211> LENGTH: 141
186 <212> TYPE: PRT
187 <213> ORGANISM: Recombinant Human
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193 Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser
194 20 25 30
196 Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser
197 35 40 45
199 Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr
200 50 55 60
202 Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn
203 65 70 75 80
205 Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr
206 85 90 95

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208 Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala
209           100           105           110
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215           130           135           140
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219 <211> LENGTH: 459
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221 <213> ORGANISM: Recombinant Human
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225 <222> LOCATION: (1)..(456)
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230 1           5           10           15
232 ctc cag gga gat gtc cgc tgg aga aag ctg ttc tcc ttc acc aag tac      96
233 Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr
234           20           25           30
236 ttt ctc aag att gaa aag aac ggc aag gtc agc ggg acc aag aag gaa      144
237 Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu
238           35           40           45
240 aac tgt ccg tac agt atc cta gag ata aca tca gtg gaa atc gga gtt      192
241 Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val
242           50           55           60
244 gtt gcc gtc aaa gcc att aac agc aac tat tac tta gcc atg aac aag      240
245 Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys
246 65           70           75           80
248 aag ggg aaa ctc tat ggc tca aaa gaa ttt aac aat gac tgt aaa ctg      288
249 Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu
250           85           90           95
252 aaa gag agg ata gag gaa aat gga tac aac acc tat gca tct ttt aac      336
253 Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn
254           100           105           110
256 tgg cag cac aac ggc agg caa atg tat gtg gca ttg aat gga aaa gga      384
257 Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala Leu Asn Gly Lys Gly
258           115           120           125
260 gct ccc agg aga gga caa aaa aca aga agg aaa aac acc tcc gct cac      432
261 Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys Asn Thr Ser Ala His
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271 <212> TYPE: PRT
272 <213> ORGANISM: Recombinant Human
274 <400> SEQUENCE: 6

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275 Met Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr Asn His
276   1           5           10           15
278 Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr
279           20           25           30
281 Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu
282           35           40           45
284 Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val
285           50           55           60
287 Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys
288   65           70           75           80
290 Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu
291           85           90           95
293 Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn
294           100          105          110
296 Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala Leu Asn Gly Lys Gly
297           115          120          125
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303 145           150
306 <210> SEQ ID NO: 7
307 <211> LENGTH: 513
308 <212> TYPE: DNA
309 <213> ORGANISM: Recombinant Human
311 <220> FEATURE:
312 <221> NAME/KEY: CDS
313 <222> LOCATION: (1)..(510)
315 <400> SEQUENCE: 7
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318   1           5           10           15
320 agc agc ttc tcc tct cct agc tct gca ggt agg cat gtg cgg agc tac   96
321 Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr
322           20           25           30
324 aat cac ctc cag gga gat gtc cgc tgg aga aag ctg ttc tcc ttc acc  144
325 Asn His Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr
326           35           40           45
328 aag tac ttt ctc aag att gaa aag aac ggc aag gtc agc ggg acc aag  192
329 Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys
330           50           55           60
332 aag gaa aac tgt ccg tac agt atc cta gag ata aca tca gtg gaa atc  240
333 Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile
334   65           70           75           80
336 gga gtt gtt gcc gtc aaa gcc att aac agc aac tat tac tta gcc atg  288
337 Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met
338           85           90           95
340 aac aag aag ggg aaa ctc tat ggc tca aaa gaa ttt aac aat gac tgt  336
341 Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys
342           100          105          110

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VERIFICATION SUMMARY

DATE: 08/13/2001

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TIME: 14:02:47

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date